ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 110680-, Banks/Franklin Counties
NH-IM-85-2(172)
I-85 Widening from North of SR 63
To North of SR 51

OFFICE Preconstruction

DATE April 9, 2008

FROM Genetha Rice-Singleton, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **APPROVED REVISED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Joe Sheffield
Paul Liles
Russell McMurry
Robert Mahoney
BOARD MEMBER

U.S.Department
of Transportation
Federal Highway Administration

Georgia Division

61 Forsyth St. SW 17T100
Atlanta, GA 30303

February 19, 2008

In Reply Refer To:
HTM-GA

Ms. Gena L. Abraham, Commissioner
Department of Transportation
No. 2 Capitol Square
Atlanta, Georgia 30334

Attention: TODD LONG - DIRECTOR OF PRECONSTRUCTION ~~Mike Thomas, Director, Division of Transportation Planning, Data and Intermodal Development~~

Dear Ms. Abraham:

Our office has reviewed and approved the revised Concept Reports NH-IM-85-2 (165, 166, 167, 168, 169, 170, 171, 172, 173, 174) conditioned upon the following comments being satisfied:

- For project NH-IM-85-2(167), please evaluate the option of raising SR 332 in the design phase (as opposed to lowering the Interstate profile).
- Several of the reports indicate the reconstruction of Interstate bridges to accommodate 8 lanes total width. After discussion with your staff, we have agreed that all bridges will only be widened to accommodate six lanes.
- Approval of these Concept Reports does not constitute approval of design decisions (sequence of construction/staging etc.).

Please contact George Merritt if you have any questions at 404-562-3655 or george.merritt@fhwa.dot.gov.

Sincerely,

Dhaman Chandra .

FOR: Rodney Barry, P.E.
Division Administrator

MOVING THE AMERICAN ECONOMY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: NH-IM-85-2(172) Banks/Franklin Counties
PI No. 110680
I-85 From North of SR 63 to North of SR 51

OFFICE Consultant Design

DATE February 20, 2007

FROM: For Mohammed (Babs) Abubakari, P.E.
State Consultant Design and Program Delivery Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report**

Attached is the original copy of the Revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

This concept revision involves the revision of five features. The first is a change in the typical section to decrease the inside shoulder width adjacent to the median barrier from 12'-9" to 12'-0" and to decrease the outside shoulder width from 16'-0" to 12'-0". Additionally, a design exception will be required for the inside shoulder widths on I-85 at all bridges over I-85 due to the encroachment of the concrete barrier into the inside shoulder. The concrete median barrier will be transitioned around the bridge columns at all overpasses. Next, the controlling criteria for bridge widths will be revised. All bridges on I-85 through the project corridor will be widened to provide sufficient width for the typical section changes noted above as well as a future ~~fourth~~ third lane on the outside. Also, the controlling criteria for sag vertical curves will be revised. Existing sag vertical curves will be reconstructed as part of this project to meet current criteria established in the 2004 Green Book. Due to sag vertical curve corrections, the bridges at the Nails Creek crossing on I-85 will require replacement in lieu of widening as stated in the concept report. Finally, the design exceptions to controlling criteria for substandard stopping sight distance described in the Project Concept Report will no longer be required.

The revised concept report as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 3-7-07

State Transportation Planning Administrator

Distribution: Brian Summers, Project Review Engineer
Harvey Keepler, State Environment/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Angela T. Alexander, State Transportation Planning Administrator
Jamie Simpson, State Financial Management Administrator
Russell McMurry, District One Engineer
Paul Liles, State Bridge Design Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: See attached Need and Purpose Statement.

Project location: This project consists of the widening and reconstruction of 6.0 miles of I-85 from just north of SR 63 (Milepost 154.0) to just north of SR 51 (Milepost 160.0), in Banks and Franklin Counties.

Description of the approved concept: The approved concept for this project consists of the widening of I-85 from the existing four-lane divided section with a depressed median to a six-lane section with a median barrier.

PDP Classification: Major _____ Minor X

Federal Oversight: Full Oversight (X), Exempt( ), SF( ), Other ( )

Functional Classification: Rural Interstate Principal Arterial

U. S. Route Number(s): I-85 **State Route Number(s):** SR 403

Traffic (AADT) as shown in the approved concept:
Current Year (2005): 49,550 Design Year (2025): 84,200

Proposed features to be revised:

- **Typical section**
  - Six 12' lanes
  - Median Barrier (Type 20, 21 or 22)
  - 14' inside shoulder (12'-9" paved)
  - 16' outside shoulder (14' paved)
  - Asphalt pavement section with asphalt overlay of existing pavement

  The typical section will be revised to decrease the inside and outside paved shoulder widths per agreement with FHWA. The revised typical section will begin on I-85 just north of SR 63 and extend throughout the project corridor, ending just north of SR 51.

- **Controlling criteria:**
  - Major Structures
    - 153'x134' Widen two parallel two-lane bridges over Nails Creek on I-85 to six-lanes (includes a 28' median on structure).

    The controlling criteria for bridge width will be revised to reflect the changes in the typical section as noted above as well as provisions for a future fourth lane on the outside of the proposed structures.

  - Design exceptions to controlling criteria anticipated:
    Design exceptions for inside shoulder width will be required for I-85 at CR 258 over I-85, at CR 387 over I-85 and at SR 51 over I-85.

    This design exception was not noted in the approved concept report. The concrete median barrier on I-85 will be transitioned around the bridge columns at all overpasses. Design Exceptions for inside shoulder width are required at these locations due to the

transition of the concrete barrier encroaching on the 12'-0" paved inside shoulder. As a result, the remaining inside shoulder width at the bridge columns will be 9'-10" measured from the inside edge of travel to the face of the barrier, of which 7'-10" is considered useable. AASHTO's 2004 edition of "A Policy on Geometric Design of Highways and Streets" states that the minimum usable shoulder width should be 10'-0" for a paved median shoulder. The paved shoulder will not meet this minimum width at the location listed above.

- Design exceptions to controlling criteria anticipated:
  A Design Exception will be required for substandard stopping sight distance at milepost 153.9, 154.2, 154.4, 154.6, 154.8, 155.1, and 155.5 between SR 63 and Neal Road (CR 258), mileposts 156.6 and 157.0, between Neal Road (CR 258) and Cedar Ridge Road (CR 387), and also at mileposts 158.5, 159.2, and 159.8 between Nails Creek and SR 51.

  Design Exceptions for substandard stopping sight distance are no longer required due to the change in design controls for crest vertical curves in AASHTO's 2004 edition of "A Policy on Geometric Design of Highways and Streets". Additionally, and vertical curves that do not meet the sag vertical curve criteria will be reconstructed to meet current criteria.

Describe the revised feature(s) to be approved:

- **The revised typical section:**
  Mile log 154.3-160.0
  - Six 12' lanes, outside lane paving will extend 1'-0" into the paved outside shoulder but will be striped at 12'-0"
  - Median Barrier (Type S-1, S-2 or S-3)
  - 13'-2" inside shoulder (12' paved)
  - 14' outside shoulder (12' paved), includes 1'-0" extension of outside lane pavement
  - Concrete pavement section with full depth reconstruction of existing pavement and an alternative pavement section (asphalt or concrete) for the paved shoulders

  The revised typical section will begin on I-85 just north of SR 63 and extend throughout the project corridor, ending just north of SR 51.

- **Controlling criteria:**
  - Major Structures:
    - I-85 over Nails Creek – 146'x153'-7"' Replace two parallel two-lane bridges over Nails Creek on I-85 to six-lanes (includes a 26'-4" median on structure).

      The bridges on I-85 over Nails Creek will be revised from the approved concept report. The proposed design calls for the widening of the bridges to a single 6-lane structure with median on structure. The revised design calls for the replacement of the existing bridges due to vertical corrections with a single 8-lane bridge, including a 26'-4" median on structure. The revised structure is 153'-7" wide by 146 feet long.

  - Design Exceptions to controlling criteria anticipated:
    Design Exceptions for inside shoulder width will be required for I-85 at CR 258 over I-85, at CR 387 over I-85 and at SR 51 over I-85. The minimum inside useable shoulder width is 10-0". The inside shoulder width will be 9'-10" measured from the inside edge of travel to the face of the barrier at the bridge columns, of which 7'-10" is considered

useable.

- Design Exceptions for substandard stopping sight distance are no longer required at milepost 153.9, 154.2, 154.4, 154.6, 154.8, 155.1, and 155.5 between SR 63 and Neal Road (CR 258), mileposts 156.6 and 157.0, between Neal Road (CR 258) and Cedar Ridge Road (CR 387), and also at mileposts 158.5, 159.2, and 159.8 between Nails Creek and SR 51.

Updated traffic data (AADT):
Current Year (2009): 47,550 Design Year (2029): 79,000

Programmed/Schedule:
P.E. 2005 R/W: N/A Construction: 2012

Revised cost estimates:
1. Construction cost including inflation and E&C, $84,139,545
2. Right-of-way, $0
3. Utilities, $0

Is the project located in a Non-attainment area? _____Yes __X__ No

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:
1. Sketch Map,
2. Cost Estimate,
3. Need and Purpose Statement,
4. Revised Typical Sections.

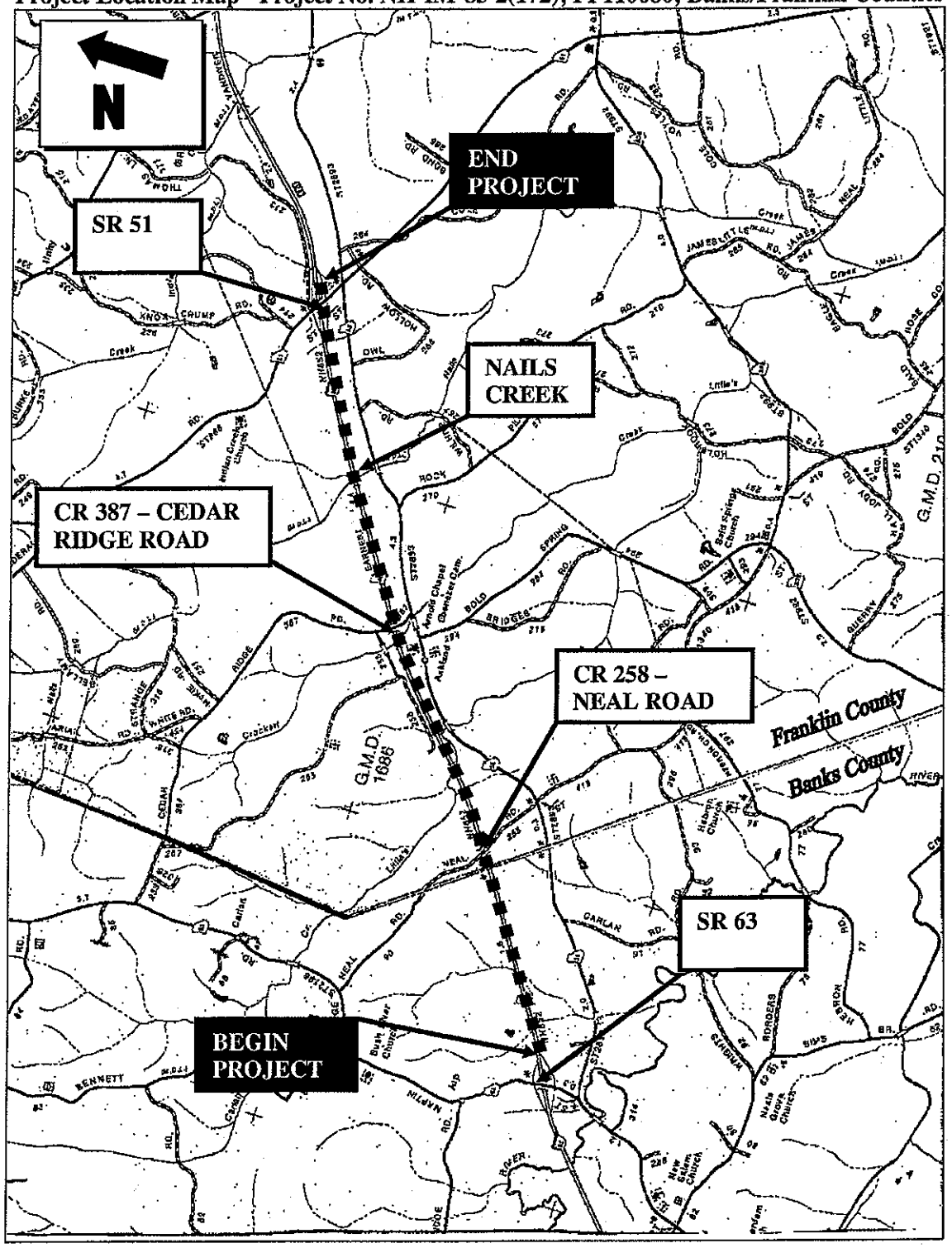
Concur: _____
Director of Preconstruction

Approve: _____
Fa! Division Administrator, FHWA

Approve: _____
Chief Engineer

Project No. NH-IM-85-2(172)
PI No. 110680
County: Banks/Franklin

Project Location Map - Project No. NH-IM-85-2(172); PI 110680; Banks/Franklin Counties



Estimate Report for file "110680"

Section MAJOR STRUCTURES

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	260	CY	37.17	FOUND BKFILL MATL, TP II	9664.20
500-3101	520	CY	465.58	CLASS A CONCRETE	242101.60
511-1000	52000	LB	0.73	BAR REINF STEEL	37960.00
518-1000	1	LS	200000.00	RAISE EXISTING BRIDGE, STA - CR 253 OVER I-85	200000.00
518-1000	1	LS	200000.00	RAISE EXISTING BRIDGE, STA - CR 387 OVER I-85	200000.00
540-1102	2	LS	20000.00	REMOVAL OF EXISTING BR, BR NO - 2 I-85 OVER NAILS CREEK	40000.00
999-9999	22887	SF	85.55	BRIDGE REPLACEMENT - I-85 OVER NAILS CREEK (149.58 x 153)	1957982.85
				Section Sub Total:	**$2,687,708.65**

Section GRADING AND DRAINAGE

Item Number	Quantity	Units	Unit Price	Item Description	Cost
206-0002	168600	CY	4.54	BORROW EXCAV, INCL MATL	765444.00
208-0100	21375	CY	9.34	IN PLACE EMBANKMENT	199642.50
500-3800	10	CY	659.38	CLASS A CONCRETE, INCL REINF STEEL	6593.80
550-1180	24000	LF	32.88	STORM DRAIN PIPE, 18 IN, H 1-10	789120.00
550-1240	9900	LF	39.78	STORM DRAIN PIPE, 24 IN, H 1-10	393822.00
550-1300	5000	LF	49.90	STORM DRAIN PIPE, 30 IN, H 1-10	249500.00
550-1360	5000	LF	60.33	STORM DRAIN PIPE, 36 IN, H 1-10	301650.00
550-1420	2225	LF	77.44	STORM DRAIN PIPE, 42 IN, H 1-10	172304.00
550-1480	0	LF	97.51	STORM DRAIN PIPE, 48 IN, H 1-10	0.00
550-4218	0	EA	482.38	FLARED END SECTION 18 IN, STORM DRAIN	0.00
550-4224	6	EA	538.00	FLARED END SECTION 24 IN, STORM DRAIN	3228.00
550-4230	4	EA	668.45	FLARED END SECTION 30 IN, STORM DRAIN	2673.80
550-4236	4	EA	907.31	FLARED END SECTION 36 IN, STORM DRAIN	3629.24
550-4242	6	EA	1088.01	FLARED END SECTION 42 IN, STORM DRAIN	6528.06
576-1018	2800	LF	26.35	SLOPE DRAIN PIPE, 18 IN	73780.00
668-2110	11	LF	248.32	DROP INLET, GP 1, ADDL DEPTH	2731.52
668-2231	130	EA	2747.69	DROP INLET, GP 1, MODIFIED TP M-1	357199.70
668-2233	20	EA	5446.65	DROP INLET, GP 1, MODIFIED TP M-3	108933.00
				Section Sub Total:	**$3,436,779.62**

Section BASE AND PAVING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	267100	TN	25.00	GR AGGR BASE CRS, INCL MATL	6677500.00
402-3121	77600	TN	80.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	6208000.00
402-3130	13700	TN	80.00	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	1096000.00
402-3190	66800	TN	80.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	5344000.00
413-1000	15250	GL	1.05	BITUM TACK COAT	16012.50
430-1220	272200	SY	70.00	CONT REINF CONC PVMT, CL HES CONC, 12 INCH THK	19054000.00
433-1000	1100	SY	149.29	REINF CONC APPROACH SLAB	164219.00
610-2845	271000	SY	50.00	REM CONC PVMT	13550000.00
				Section Sub Total:	**$52,109,731.50**

Section GRASSING AND EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	19	AC	483.39	TEMPORARY GRASSING	9184.41
163-0240	325	TN	195.38	MULCH	63498.50
163-0300	45	EA	1254.90	CONSTRUCTION EXIT	56470.50
163-0503	10	EA	490.56	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	4905.60
163-0520	5000	LF	12.59	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	62950.00
163-0521	1120	EA	165.69	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	185572.80
163-0530	5000	LF	2.71	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	13550.00

163-0550	161	EA	246.79	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	39733.19
165-0010	8052	LF	1.07	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	8615.64
165-0030	32208	LF	1.18	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	38005.44
165-0040	1120	EA	69.45	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	77784.00
165-0070	2500	LF	1.48	MAINTENANCE OF BALED STRAW EROSION CHECK	3700.00
165-0087	10	EA	175.14	MAINTENANCE OF SILT CONTROL GATE, TP 3	1751.40
165-0101	90	EA	417.31	MAINTENANCE OF CONSTRUCTION EXIT	37557.90
165-0105	161	EA	87.71	MAINTENANCE OF INLET SEDIMENT TRAP	14121.31
167-1000	2	EA	1767.98	WATER QUALITY MONITORING AND SAMPLING	3535.96
167-1500	30	MO	838.87	WATER QUALITY INSPECTIONS	25166.10
171-0010	16104	LF	1.86	TEMPORARY SILT FENCE, TYPE A	29953.44
171-0030	64416	LF	3.19	TEMPORARY SILT FENCE, TYPE C	205487.04
201-1500	1	LS	840000.00	CLEARING & GRUBBING -	840000.00
441-0204	10000	SY	27.93	PLAIN CONC DITCH PAVING, 4 IN	279300.00
603-2024	3500	SY	43.35	STN DUMPED RIP RAP, TP 1, 24 IN	151725.00
603-7000	13500	SY	4.03	PLASTIC FILTER FABRIC	54405.00
700-6910	37	AC	804.69	PERMANENT GRASSING	29773.53
700-7000	37	TN	59.04	AGRICULTURAL LIME	2184.48
700-7010	93	GL	19.04	LIQUID LIME	1770.72
700-8000	63	TN	266.98	FERTILIZER MIXED GRADE	16819.74
700-8100	1850	LB	1.56	FERTILIZER NITROGEN CONTENT	2886.00
716-2000	50000	SY	1.06	EROSION CONTROL MATS, SLOPES	53000.00
				Section Sub Total:	**$2,313,407.70**

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1031	1300	SF	16.89	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	21957.00
636-1032	850	SF	27.58	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING TP 6	23443.00
636-1076	6500	SF	28.30	HIGHWAY SIGNS, ALUM EXTRUDED PANELS, REFL SHEETING TP 6	183950.00
636-2070	390	LF	7.02	GALV STEEL POSTS, TP 7	2737.80
638-1001	4	LS	70943.32	STR SUPPORT FOR OVERHEAD SIGN, TP I , STA -	283773.28
657-1054	60400	LF	3.47	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB	209588.00
657-1084	4550	LF	4.46	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, WHITE, TP PB	20293.00
657-3054	120800	GLF	2.56	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	309248.00
657-6054	60400	LF	3.70	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	223480.00
				Section Sub Total:	**$1,278,470.08**

Section MISCELLANEOUS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	3600000.00	TRAFFIC CONTROL -	3600000.00
621-6001	12000	LF	49.07	CONCRETE BARRIER, TP S-1	588840.00
621-6002	12000	LF	70.23	CONCRETE BARRIER, TP S-2	842760.00
621-6003	6000	LF	160.45	CONCRETE BARRIER, TP S-3	962700.00
622-1033	128232	LF	28.39	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	3640506.48
622-1050	32658	LF	118.73	PRECAST CONCRETE MEDIAN BARRIER, METHOD 4	3877484.34
641-1100	2500	LF	31.09	GUARDRAIL, TP T	77725.00
641-1200	10000	LF	13.69	GUARDRAIL, TP W	136900.00
641-5001	30	EA	479.73	GUARDRAIL ANCHORAGE, TP 1	14391.90
641-5012	30	EA	1553.85	GUARDRAIL ANCHORAGE, TP 12	46615.50
650-1300	4	EA	25243.62	IMPACT ATTENUATOR UNIT, (COMPRESSION CRASH CUSHION) TYPE S -	100974.48
682-6140	30000	LF	25.85	CONDUIT, RIGID, 4 IN	775500.00
				Section Sub Total:	**$14,664,397.70**

Section INFLATION AND E&C

Item Number	Quantity	Units	Unit Price	Item Description	Cost
999-9998	1	Lump Sum	0.00	INFLATION (0 YEARS @ 5%)	0.00

999-9999	1	Lump Sum	7649049.53	E&C (10%)	7649049.53
				Section Sub Total:	**$7,649,049.53**

Total Estimated Cost: $84,139,544.78

NEED AND PURPOSE
PROJECTS NH-IM-85-2 (166-174)
BARROW, JACKSON, BANKS, FRANKLIN
P.I. NO. 110620, 110630, 110640, 110650, 110660, 110670, 110680, 110690, 110700
I-85/SR 403 IMPROVEMENTS

I-85/SR 403, a rural principal arterial, is a primary corridor in northeastern Georgia. The proposed project NH-IM-85-2 (166-174) would consist of adding one lane to I-85/SR 403 inside the median in each direction from SR 211 in Barrow County to north of SR 17 in Franklin County for a total of 47.2 miles.

Level of Service

The current Average Annual Daily Traffic (AADT) on I-85/SR 403 for projects NH-IM-85-2 (166-174) ranges from 35,800 to 42,800 providing a Level of Service in the "C" to "D" range. The projected (2025) traffic volumes for NH-IM-85-2 (166-174) range from 76,800 AADT to 95,300 AADT, providing for a LOS "F". The increasing traffic volumes, with 24% trucks, are projected to cause the roadway to reach unacceptable Levels of Service.

Projects NH-IM-85-2	*Current Year (2005) AADT*	*Current Year (2005) (LOS)*	*Design Year (2025) Projected AADT*	*Design Year (2025) Projected (LOS) Build*	*Design Year (2025) Projected (LOS) No Build*
(166)	51,600	D	95,300	E	F
(167)	51,600	D	87,700	D	F
(168)	53,800	D	91,500	E	F
(169)	53,200	D	90,500	E	F
(170)	51,200	D	87,100	E	F
(171)	51,200	D	87,100	E	F
(172)	49,500	D	84,200	E	F
(173)	47,000	C	79,900	D	F
(174)	45,200	C	76,800	D	F

Accidents

The latest year that complete accident data is available is 1997. The statewide average accident rate in 1997 for a rural interstate was 49 accidents per 100,000,000 vehicle miles traveled. Proposed projects NH-IM-85-2 (166-173) are below the statewide average. Proposed project NH-IM-85-2 (174) was above the statewide average.

Projects NH-IM-85-2	*Accidents*	*Accident Rate*	*Statewide Accident Average*
(166)	25	31	49
(167)	12	15	49
(168)	26	46	49
(169)	17	17	49
(170)	12	26	49
(171)	9	16	49
(172)	17	21	49
(173)	18	36	49
(174)	65	51	49

Logical Termini

The proposed projects NH-IM-85-2 (166-174) have logical termini:

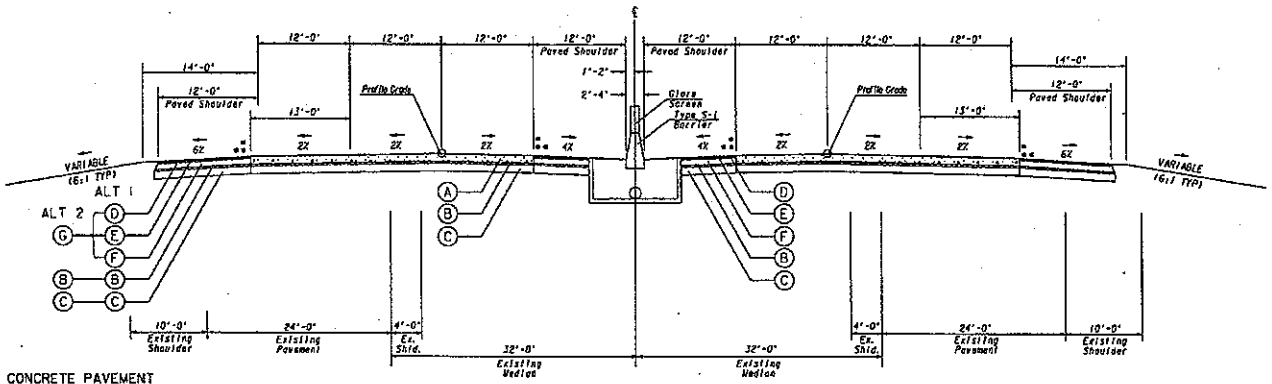
Projects NH-IM-85-2	*Southern Terminus*	*Northern Terminus*	*Project Length*
(166)	North of SR 211	Ties into proposed project **NH-IM-85-2 (167)** Location: North of SR 60	5.8 mi.
(167)	Ties into proposed project **NH-IM-85-2 (166)** Location: North of SR 60	Ties into proposed project**NH-IM-85-2 (168)** Location: North of US 129/SR 11	5.0 mi.
(168)	Ties into proposed project **NH-IM-85-2 (167)** Location: North of US 129/SR 11	Ties into proposed project **NH-IM-85-2 (169)** Location: North of SR 82	3.6 mi.
(169)	Ties into proposed project **NH-IM-85-2 (168)** Location: North of SR 82	Ties into proposed project **NH-IM-85-2 (170)** Location: North of SR 98	6.2 mi.
(170)	Ties into proposed project **NH-IM-85-2 (169)** Location: North of SR 98	Ties into proposed project **NH-IM-85-2 (171)** Location: North of US 441/SR 15	2.8 mi.
(171)	Ties into proposed project **NH-IM-85-2 (170)** Location: North of Us 441/SR 15	Ties into proposed project **NH-IM-85-2 (172)** Location: North of SR 63	4.4 mi.
(172)	Ties into proposed project **NH-IM-85-2 (171)** Location: North of SR 63	Ties into proposed project **NH-IM-85-2 (173)** Location: North of SR 51	6.0 mi.
(173)	Ties into proposed project **NH-IM-85-29(172)** Location: North of SR 51	Ties into proposed project **NH-IM-85-2 (174)** Location: North of SR 320	4.1 mi.
(174)	Ties into proposed project **NH-IM-85-2 (173)** Location: North of SR 320	North of SR 17	9.3 mi.

Other Projects in the Area

Although the proposed improvements demonstrate independent utility, it is also consistent with the goals of other projects in the area in order to improve the entire transportation network.

- NHS-M001-00 (027), Gwinnett, Barrow, Jackson, and Banks Counties: resurfacing of I-85 south of SR 211 in Gwinnett County to South of US 441/SR 15 in Banks County
- IM-00MS (266), I-85 Safety Upgrades at SR 211 in Barrow County and SR 53, SR 82, and SR 98 in Jackson County
- IM-85-2 (177), Jackson County Rest Areas
- STP-065-3 (55), SR 53 from I-85 to Lanier Raceway/Road Atlanta
- IM-00MS (325),I-85 Safety Upgrades at SR 15 and SR 63 in Banks County and SR 51, SR 320, SR 106, and SR 17 in Franklin County and SR 77 in Hart County
- EDS-IM0545 (19), Widen and Reconstruct SR 17 from CR 67 in Lavonia to Stephens County line including replacement bridge over I-85 and realigning ramp terminals on SR 17

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
BANKS, FRANKLIN	NH-IM-85-2(172)	#1A01	#TOT



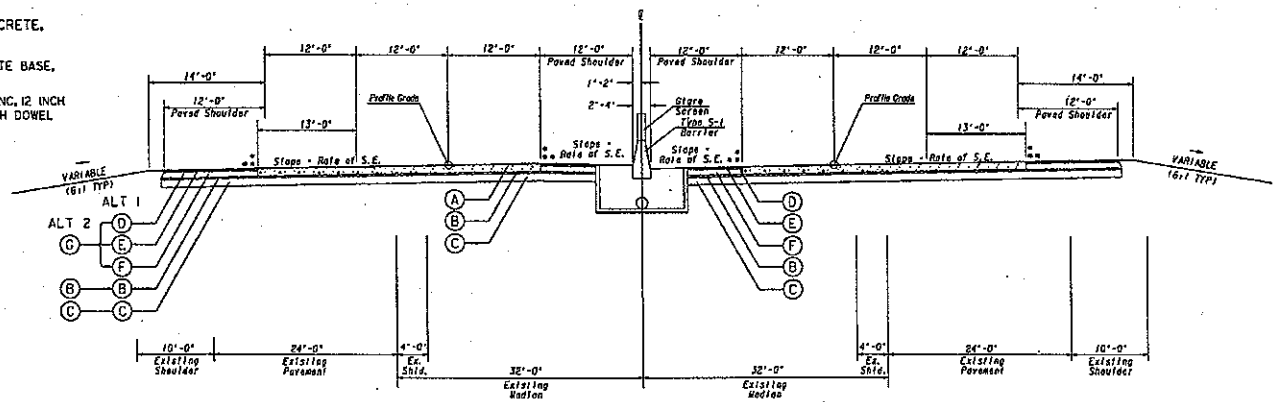
I-85 LANE TYPICAL SECTION
TANGENT SECTION
(EXISTING 64' MEDIAN)

PAVEMENT DESIGN

- (A) 12" CONTINUOUS REINFORCED CONCRETE PAVEMENT
- (B) 330 #/SY ASPHALTIC CONCRETE, 19 mm SUPERPAVE
- (C) 12" GRADED AGGREGATE BASE
- (D) 165 #/SY ASPHALTIC CONCRETE, 12.5 mm SUPERPAVE
- (E) 220 #/SY ASPHALTIC CONCRETE, 19 mm SUPERPAVE
- (F) 935 #/SY ASPHALTIC CONCRETE BASE, 25 mm SUPERPAVE
- (G) PLAIN PC CONC PVMT, CL 1 CONC, 12 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 15 FT C/C)

* GROUND IN RUMBLE STRIPS

** STRIPING, RPM'S, ETC.



I-85 LANE TYPICAL SECTION
SUPERELEVATED SECTION
(EXISTING 64' MEDIAN)

RS+H
730 PEACHTREE STREET, SUITE 430
ATLANTA, GA 30308
PHONE: (678)528-7200 FAX: (404)347-9522

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN
TYPICAL SECTIONS
I-85 WIDENING
DRAWING No.